

**A SYSTEM AND METHOD FOR PRODUCING EFFICIENT INK DROP
OVERLAP FILLED WITH A PSEUDO HEXAGONAL GRID PATTERN**

ABSTRACT OF THE DISCLOSURE

5 The present invention is embodied in a system and method for
producing efficient ink drop overlap filled with a pseudo hexagonal grid pattern.
In general, the present invention can include an inkjet printhead assembly that
incorporates a preprogrammed correction scheme or schemes [1-n] (herein
correction scheme will refer to all applications), for correcting systematic ink
10 drop placement errors of the inkjet printhead. The printing system of the
present invention uses a unique ink dot pattern, called a pseudo-hexagonal
close pack system. The present invention optimizes the addressable grid for
dot placement, pseudo hexagonal close pack system, with an efficient
geometry for packing circles to fill an area, similar to the hexagonal close pack
15 system. However, the present invention in creating dots on a non-symmetric
grid is supported by available software and is not computationally complex.